**Index of Claims** 

Application/Control No.

10/619,515

Examiner

Hoang Ngo

Applicant(s)/Patent under Reexamination

SASAYA ET AL.

Art Unit

2852

Rejected Allowed

(Through numeral) Cancelled ÷ Restricted

Non-Elected N Interference

Claim

**Appeal** Α 0 Objected

Date

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|              | Date                  |           |          |  |  |                                     |              |          |  |                 |
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|              | 2                     | П         |          |  |  |                                     |              |          |  |                 |
|              | 8                     | Г         | Г        |  |  |                                     |              |          |  |                 |
|              | 1<br>1<br>1<br>1<br>1 |           |          | Π  |  |                                     |              | Г        |  | $\Box$          |
|              | 5                     | Ī         |          |  |  |                                     |              |          |  |                 |
|              | 18                    | Г         | П        | Г  |  |                                     |              |          |  |                 |
|              | 7                     |           |          |  | Г  |                                     |              |          |  |                 |
|              | 8                     |           | П        |  | П  |                                     |              |          | Г  |                 |
|              | Æ                     | Г         |          |  | ,  |                                     |              |          |  |                 |
|              | 10                    |           |          |  |  | Т                                   |              |          | Т  | П               |
|              | 11                    |           | $\vdash$ | $\vdash$   |  | <u> </u>                            |              |          |  | П               |
|              | 1/2                   |           | Т        | <b>—</b>   |  |                                     | Г            |          | Г  | П               |
|              | 13                    | $\vdash$  | $\vdash$ |  | $\vdash$   | <u> </u>                            | Г            | $\vdash$ | $\vdash$   | Н               |
|              | 14                    |           | <u> </u> |  |  |                                     |              |          | <del>                                     </del> | Н               |
|              | 8 8 10 17 18 19 20    | $\vdash$  | _        | _  |  | <u> </u>                            | Т            | _        | <del>                                     </del> | $\vdash$        |
| <b></b>      | 16                    |           | $\vdash$ | $\vdash$   | $\vdash$   | <del> </del>                        |              | _        | $\vdash$   | Н               |
|              | 17                    | =         | $\vdash$ | <del>                                     </del> | <del>                                     </del> | $\vdash$                            | $\vdash$     |          | $\vdash$   | H               |
| $\vdash$     | 18                    |           | $\vdash$ |  | $\vdash$   |                                     | $\vdash$     | $\vdash$ |  | H               |
| -            | 10                    | 4         | ┢        | -  | -  |                                     |              |          |  | Н               |
|              | 20                    | ╫         | ⊢        | ┢  | $\vdash$   | ┢                                   | -            | -        | _  | Н               |
| <del> </del> | 21                    | ╫         | $\vdash$ | -  | $\vdash$   | ┝                                   | $\vdash$     | _        | -  | Н               |
| <u> </u>     | 22                    | H         | $\vdash$ |  | $\vdash$   | $\vdash$                            |              | $\vdash$ | _  | Н               |
| <del> </del> | 22<br>23              | Н         | ⊢        | <u> </u>   | -  | <u> </u>                            |              |          | -  | Н               |
| <u> </u>     | 24                    | ╁         | ├        | -  | ┝  | $\vdash$                            | H            | -        | _  | Н               |
|              | 25                    | Η         | -        | -  | -  | $\vdash$                            | $\vdash$     | _        |  | Н               |
|              | 25<br>26              | Н         |          | H  | ├-   | <u> </u>                            | <del> </del> | -        |  | Н               |
| <u> </u>     | 20                    | H         | -        | <u> </u>   | ⊢  | ├                                   |              | -        |  | Н               |
|              | 27<br>28              | H         | <u> </u> | ⊢  | ┝  | ├                                   | $\vdash$     | _        | -  | $\vdash$        |
| _            | 20                    | H         | $\vdash$ | $\vdash$   |  |                                     | <del> </del> | -        |  | Н               |
| <u> </u>     | 29                    | ₩         | ⊢        | <del> </del>                                     | ├  | -                                   |              | -        | -  | $\vdash \vdash$ |
| _            | 30<br>31              | H         | <u> </u> | $\vdash$   | ├-   | $\vdash$                            | -            |          | -  | Н               |
| $\vdash$     | 37                    | H         | H        | $\vdash$   | <del> </del> —                                   | <del> </del>                        | <u> </u>     | -        | $\vdash$   | Н               |
| -            | 32                    | ⊬         | <u> </u> | ├_   | -  | -                                   | _            | -        | ├  | Н               |
| <u> </u>     | 33                    | 1         | ⊢–       | <u> </u>   | $\vdash$   | $\vdash$                            | $\vdash$     | <u> </u> | <u> </u>   | Н               |
| <u> </u>     | 34                    | #         | ├—       | <u> </u>   | <del> </del>                                     | <u> </u>                            | -            |          | <u> </u>   | Н               |
|              | 35                    | 1         | <u> </u> | <u> </u>   | <u> </u>   | <u> </u>                            | -            |          | $\vdash$   | Н               |
|              | 36                    | #         | <u> </u> |  | <u> </u>   | $\vdash$                            |              |          | $\vdash$   | Н               |
| _            | 37                    | 1         | <u> </u> | _  |  |                                     | Ι            |          | <u> </u>   | Н               |
| $\vdash$     | 38                    | 1         | <u> </u> | _  | <u> </u>   |                                     | $\vdash$     | _        | <u> </u>   | Ш               |
|              | 39                    | 1         | <u> </u> | _  | <u> </u>   | $\vdash$                            | Щ            | _        | <u> </u>   | Щ               |
|              | 40                    | $\sqcup$  |          |  | $\vdash$   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>     | _        | <u> </u>   | Щ               |
|              | 41                    | $\coprod$ |          |  |  |                                     | L.,          |          |  |                 |
|              | 42                    | Ш         |          | _  |  |                                     | $\Box$       |          |  |                 |
|              | 43                    | Ш         |          | oxdot  | L  |                                     | Ш            |          | _  |                 |
|              | 44                    | Ш         | <u>L</u> | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$     | L.,  |                                     |              |          |  |                 |
|              | 45                    | Ш         |          |  |  |                                     |              |          |  |                 |
|              | 46                    | Ш         |          | آليا   |  |                                     |              |          |  |                 |
|              | 47                    | Ш         |          |  |  |                                     |              |          |  |                 |
|              | 48                    |           |          |  |  |                                     |              |          |  |                 |
|              | 49                    | V         |          |  |  |                                     |              |          |  |                 |
|              | 50                    | =         |          |  |  |                                     |              |          |  |                 |

| Cla      | aim           | Π         |           |          |          | _  | Dat  | е        | -            |  |  | ] [          | Cla   | im       | Г |         |  |          | Date     | <del></del> |          |          | $\Box$   |
|----------|---------------|-----------|-----------|----------|----------|--|--|----------|--------------|--|--|--------------|-------|----------|---|---------|--|----------|----------|-------------|----------|----------|----------|
| Final    | Original      | 7,072     | 200       |          | -        |  |  |          |              |  |  |              | Final | Original |   | 6/11/   |  |          |          |             |          |          |          |
|          |               | -         | 十         | ᅥ        | -        | $\vdash$   | -  | ╁        | -            | <del> </del>                                     | -  | 1 1          |       | 51       | - | -       | $\vdash$   | ┝        | $\vdash$ | _           |          | -        | Н        |
|          | 1 2 X X X X X | $\vdash$  | $\dagger$ | ┪        |          | <del>                                     </del> | $\vdash$   | -        | -            |  |  | 1 1          |       | 52       | 7 | 7       | $\vdash$   | $\vdash$ | $\vdash$ |             |          |          | П        |
|          | 7             | $\vdash$  | t         | ┪        |          | $\vdash$   | <del>                                     </del> | -        | $\vdash$     | <del>                                     </del> | <del>                                     </del> | 1 1          |       | 53       | ľ |         | T  | $\vdash$ |          |             |          |          | П        |
| -        | A             | Т         | $\dagger$ | ┪        | _        | _  |  | T        |              | _  |  | 1 1          |       | 54:      | П |         |  |          |          |             |          |          | П        |
|          | 5             | Г         | Ť         | 7        |          |  | H  |          | T            | -  |  | 1 1          |       | 55<br>56 | П |         |  |          |          |             |          |          |          |
|          | 8             | Г         | Τ         | T        |          |  |  | Т        | Г            |  |  | 1 1          |       | 56       | П | П       |  |          |          |             |          |          | П        |
|          | 7             |           | T         | T        |          |  |  |          |              |  |  | 1 1          |       | 57       |   |         |  |          |          |             |          |          |          |
|          | 8             |           | T         |          |          |  |  |          |              |  |  |              |       | 58<br>59 |   |         |  |          |          |             |          |          |          |
|          | Ø,            |           | I         |          |          | •  |  |          |              |  |  | ] [          |       | 59       |   |         |  |          |          |             |          |          |          |
|          | 10,           |           | L         |          |          |  |  |          |              |  |  |              |       | 60       | Ц | 丄       |  |          |          |             |          | Ш        | Ш        |
|          | 11            | L         | L         |          |          |  |  |          | 匚            |  |  | ]            |       | 61       | 4 |         | <u> </u>   |          |          |             | _        | Щ        | Ш        |
|          | 12            | L         | L         |          |          | _  | _  |          | L            | _  | _  |              |       | 62       | 1 |         |  |          |          | _           |          |          | Ш        |
|          | 13            | _         | 1         | 4        |          |  |  |          | _            |  | <u> </u>   |              |       | 63       | 1 |         | L  |          |          | _           | <u> </u> | Ш        |          |
|          | あるなれるない       | _         | 1         | 4        |          |  | <u> </u>   | <u> </u> | <u> </u>     | _  | <u> </u>   |              |       | 64       | 1 | _       | _  | <u> </u> | _        |             | <u> </u> | Щ        | Щ        |
|          | 18            | L         | +         | 4        |          |  | <u> </u>   |          |              | <u> </u>   | <u> </u>   |              |       | 65       | 4 | +       | <u> </u>   |          | _        |             |          |          |          |
|          |               | _         | +         | 4        |          |  | -  | <u> </u> |              | _  | ┡  |              |       | 66       | 4 | +-      | <u> </u>   | _        | _        | _           | <u> </u> |          |          |
|          | 17            | =         | ₽         | 4        |          | _  | -  | <u> </u> | _            | $\vdash$   | $\vdash$   |              |       | 67       | 4 | +       | _  |          |          | _           | <u> </u> |          |          |
|          | 18            | A         | ╀         | -        |          |  | -  | ļ        |              |  | <u> </u>   |              |       | 68       | 4 | +       | _  |          |          |             |          | -        | Н        |
|          | 19<br>20      | H         | +         | 4        | _        | _  | <u> </u>   |          | <del> </del> | _  | ⊢  | } }          |       | 69<br>70 | 4 | ╀       | -  |          |          | _           | H        |          | Н        |
|          | 21            | Н         | ╀         | +        | -        |  | ┢  | ┝        | -            |  | ┝  | ┨            |       | 71       | + | +       |  |          |          |             | -        |          | $\dashv$ |
|          | 22            | Н         | ╀         | +        |          |  | ⊢  | ├        | $\vdash$     | _  | ├  | <del> </del> | -     | 72       | + | ╁       | -  | _        | _        | -           | $\vdash$ | Н        | $\dashv$ |
|          | 23            | Н         | ╁         | -        | -        |  |  | _        | ┢            | -  | -  | {            |       | 73       | + | ╁       | -  | _        |          | _           | H        | Н        | $\dashv$ |
| _        | 24            | ┨         | ╁         | ┪        |          | _  | ⊢  | ┝        | $\vdash$     | _  | ┢  | <b> </b>     |       | 74       | + | +       | -  |          |          |             | $\vdash$ | $\vdash$ | $\dashv$ |
|          | 25            | Н         | ╁         | +        | -        |  | $\vdash$   | $\vdash$ | $\vdash$     |  | $\vdash$   | ╽┟           |       | 75       | † | +       |  |          |          | _           |          | $\vdash$ | $\dashv$ |
|          | 26            | Н         | ۲         | ┪        |          | -  | H  | ┝        | $\vdash$     |  | -  | ╽┟           |       | 76       | t | +       |  |          |          | _           |          | Н        | $\dashv$ |
|          | 27            | Н         | t         | ┪        |          | -  | $\vdash$   | -        | ┢            |  | $\vdash$   | 1 1          |       | 77       | t | $\top$  | -  | _        | _        | -           |          |          | $\neg$   |
|          | 28            | H         | t         | ┪        |          |  | $\vdash$   | $\vdash$ | $\vdash$     |  | -  | 1 1          |       | 78       | t | 1       | П  |          |          | _           |          |          | $\neg$   |
|          | 28<br>29      | H         | t         | $\dashv$ |          |  | _  | $\vdash$ | $\vdash$     |  | -  | 1 1          |       | 79       | t |         |  |          |          |             |          |          |          |
|          | 30            | H         | T         | 7        |          |  | $\vdash$   | _        | Т            |  |  | 1            |       | 80       | ţ |         |  |          |          |             |          |          |          |
|          | 30<br>31      | П         | T         | 寸        |          |  |  | _        |              |  |  | 1 [          | - 1   | 81       | 1 | 1       |  |          |          |             |          |          |          |
|          | 32            | П         | Ī         | ٦        |          |  |  |          |              |  |  |              |       | 82       | 1 |         |  |          |          |             |          |          |          |
|          | 33            | 1         | Τ         | T        |          |  |  |          | Г            |  |  |              | i     | 83       | ٦ |         |  |          |          |             |          |          |          |
|          | 34            | $\prod$   | Γ         |          |          |  |  |          |              |  |  |              |       | 84       | J |         |  |          |          |             |          |          |          |
|          | 35            | Щ         | Ĺ         | I        |          |  |  |          |              |  |  |              | [     | 85       |   | 4       | _  |          |          |             |          |          |          |
|          | 36            | $\perp$   | L         |          |          |  | _  |          | _            |  | <u> </u>   |              |       | 86       |   | $\perp$ |  |          |          | _           | _        |          |          |
|          | 37            | Щ         | L         | 4        | _        | _  |  | L_       | <u> </u>     |  | <u> </u>   |              |       | 87       | _ | 4       |  |          |          |             | Ь.       |          |          |
|          | 38            | 4         | Ļ         | 4        | _        |  |  | <u> </u> | <u> </u>     | _  | $\vdash$   |              |       | 88       | _ | 4       |  |          |          |             | <u> </u> |          |          |
|          | 39            | 4         | Ļ         | 4        | _        |  | $\vdash$   | <u> </u> | <u> </u>     | _  | <u> </u>   |              |       | 89       | _ | 4       |  |          |          |             | _        |          |          |
|          | 40            | H         | +         | 4        | _        |  | $\vdash$   | <u> </u> | <u> </u>     | _  | <u> </u>   |              |       | 90       | 4 | 4-      | <del>                                     </del> | $\vdash$ | $\vdash$ |             | $\vdash$ | $\vdash$ | -        |
| _        | 41            | H         | +         | 4        |          |  | $\vdash$   | Ь.       | <u> </u>     |  |  |              |       | 91       | 4 | -       | $\vdash$   | _        |          |             |          | -        |          |
|          | 42            | Н         | ╀         | +        |          |  | $\vdash$   | _        | -            |  |  | -            |       | 92       | 4 | -       | $\vdash$   | $\vdash$ |          |             |          |          | $\dashv$ |
|          | 43            | ert       | ╀         | +        | _        |  |  | _        | $\vdash$     | _  | <u> </u>   | {            | -     | 93       | 4 | -       | -  | $\vdash$ | $\vdash$ |             | $\vdash$ | $\vdash$ | $\dashv$ |
|          | 44<br>45      | Н         | ╀         | +        | $\dashv$ |  | -  | -        | $\vdash$     | _  | -  | {            |       | 94<br>95 | + | +       | -  | $\vdash$ | $\vdash$ |             |          | $\vdash$ | $\dashv$ |
| -        | 46            | ${\sf H}$ | ╀         | +        |          |  | $\vdash$   | -        | -            | -  | ├-   | {            |       | 96       | + | +-      | <del>  -  </del>                                 | -        | $\vdash$ | _           | _        | $\dashv$ | $\dashv$ |
| $\dashv$ | 47            | H         | +         | +        | -        |  | $\vdash$   | $\vdash$ | $\vdash$     |  | -  | -            |       | 97       | + | +       | -  | $\vdash$ | $\vdash$ | _           |          | $\dashv$ | $\dashv$ |
| $\dashv$ | 48            | +         | ╁         | +        | -        |  | $\vdash$   | -        | $\vdash$     |  | <u> </u>   | -            |       | 98       | + | +-      | $\vdash$   |          | $\dashv$ | _           |          | $\vdash$ | $\dashv$ |
|          | 49            | 4         | +         | +        | $\dashv$ |  | -  | $\vdash$ | H            | -  | $\vdash$   | -            |       | 99       | ⇟ | +-      | $\vdash$   | -        | $\vdash$ |             |          | $\dashv$ | $\dashv$ |
| -        | 50            | =         | +         | +        | $\dashv$ | -  | $\vdash$   | $\vdash$ |              | _  |  |              |       | 100      | _ |         | -  | -        | -        |             |          | $\dashv$ | $\dashv$ |
|          | -00           | _         | 1.        | _1       |          |  |  | _        |              |  | <u> </u>   | ı L          |       | 100      | = |         |  |          | نب       |             |          |          |          |

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| Final   | Original  | コイプリー       |          |  |  |          |          |          |          |          |
| Έ       | 1   | Ŀ           |          |  |  |          |          |          |          |          |
|         | 101   | =           |          |  | ľ  |          | l        |          |          |          |
|         | 102   | 4           |          |  |  | Τ        | Г        |          |          | П        |
|         | 103   | 17          | _        | Т  | _  | $\vdash$ | Т        | _        |          | H        |
|         | 104   | ╫           | -        | $\vdash$   | ┢╌   | $\vdash$ | $\vdash$ | -        | $\vdash$ | Н        |
|         | 105   | H           | ┢        | ╫  | ┥  | ┢        | -        | ┢─       |          | Н        |
|         | 101<br>102<br>103<br>104<br>105<br>106  | ╟           | -        | ⊢  | ⊢  | ├-       | -        | ⊢        | ⊢        | Н        |
|         | 100   | ₩-          | <u> </u> | ⊢  | ⊢  | ⊢        | <u> </u> | ⊢        | -        | $\vdash$ |
|         | 107   | #           | _        | _  | <u>                                     </u> | _        |          | _        |          | $\vdash$ |
|         | 107<br>108<br>109   | Щ_          | _        | _  | _  | ļ        |          | <u> </u> |          | Ш        |
|         | 109   | 1           | _        |  |  |          |          | _        |          | Ш        |
|         | 110   | L           | _        |  |  |          | _        |          |          | Ш        |
|         | 111   |             | <u> </u> | _  |  | ٠        | _        | Ц        |          | Ш        |
|         | 112   | L           |          |  |  |          |          |          |          |          |
|         | 113   |             |          |  |  |          |          |          |          |          |
|         | 114   |             | _        |  |  |          | _        |          |          |          |
|         | 115   | 7           | Γ        |  |  |          |          |          |          |          |
|         | 116   | :           |          |  |  |          |          |          |          |          |
|         | 121   |             |          |  |  |          |          |          |          |          |
|         | 116   |             | $\vdash$ |  |  |          |          |          |          | $\Box$   |
|         | 1,19  | $\vdash$    | -        | _  | _  |          | _        | _        | _        |          |
|         | 120   | -           | H        | <del>                                     </del> | $\vdash$                                     | Н        |          |          |          | _        |
|         | 110<br>111<br>112<br>113<br>114<br>115<br>116<br>117<br>120<br>121<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>128 | $\vdash$    | $\vdash$ |  | <del> </del>                                 | $\vdash$ |          |          |          | $\vdash$ |
|         | 122   | -           | -        | -  | $\vdash$                                     | H        |          | -        | _        |          |
|         | 122   | $\vdash$    | $\vdash$ | ┢  |  | -        | -        | -        | -        | _        |
|         | 184   | $\vdash$    | _        | -  | <del> </del>                                 | _        | -        |          | H        | -        |
|         | 108   | ⊢           | ⊢        | ⊢  | <del> </del>                                 |          | $\vdash$ | _        |          |          |
|         | 100   |             | -        | _  | _  |          | -        | _        | _        | Н        |
|         | 100   | <u> </u>    | <u> </u> | <u> </u>   | <u> </u>                                     | $\vdash$ | <u> </u> | _        | _        | Н        |
|         | 12/   |             | <u> </u> |  | <u> </u>                                     |          | <u> </u> | -        |          | $\vdash$ |
|         | 728   |             | _        | <u> </u>   | _  |          | <u> </u> |          |          |          |
|         | 129   | _           | L        |  | L  |          | $\vdash$ |          |          |          |
|         | 130   |             |          | _  |  |          | <u></u>  |          |          | Ш        |
|         | 181   |             |          |  | _  |          |          |          |          |          |
|         | 152   |             |          | L  |  |          | _        |          |          | Ш        |
|         | 133   | =           |          |  |  |          |          |          |          |          |
|         | 129<br>130<br>181<br>182<br>133<br>134<br>135   | 4           |          |  |  | لسا      |          |          |          |          |
|         | 135   |             |          |  |  |          |          |          |          |          |
|         | 136   | Ш           |          |  | L  |          |          |          |          |          |
|         | 137   |             |          |  |  |          |          |          |          |          |
|         | 137<br>138  |             |          |  | L  |          |          |          |          |          |
|         | 139   |             |          |  |  |          |          |          |          |          |
|         | .140  |             |          |  |  |          |          |          |          |          |
|         | 141   |             |          |  |  |          |          |          |          |          |
|         | 142   |             |          |  |  |          |          |          |          |          |
|         | 143   |             |          |  |  |          |          |          |          |          |
|         | 144   |             |          |  |  |          | П        |          |          | $\sqcap$ |
|         | 145   | 1           | Т        | _  |  |          | _        |          | $\neg$   | $\sqcap$ |
|         | 146   |             |          |  |  |          |          |          |          | -        |
|         | 147   | 4           | $\vdash$ | $\vdash$   | $\vdash$                                     |          | М        |          | $\vdash$ | $\vdash$ |
|         | 148   | :           | $\vdash$ | $\vdash$   | $\vdash$                                     | $\vdash$ | Н        |          |          | $\dashv$ |
|         | 149   | <u> </u>    | _        | $\vdash$   |  | $\vdash$ | Н        | -        | $\vdash$ | $\dashv$ |
| .       | 150   | <del></del> | $\vdash$ | $\vdash$   | $\vdash$                                     |          | $\vdash$ | -        | $\vdash$ | $\dashv$ |
|         | 130   | Ц           | L        | Ц.   |  |          |          | L        | لــــا   |          |
|         |   |             |          |  |  |          |          |          |          |          |